

IN THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the Application:

LISTING OF CLAIMS:

Claims 1-12. (Canceled).

13. (Currently amended) A remotely powerable device, comprising:
- normal operating circuitry that couples to a connecting medium of a computer network; and
  - a powerability indicator, coupled to the normal operating circuitry, that (i) receives a test signal from the connecting medium of the computer network, and (ii) provides a response signal to the connecting medium of the computer network to enable discovery of the remotely powerable device based on the response signal, wherein the connecting medium includes a local end and a remote end, and wherein the powerability indicator selectively indicates, through the local end of the connecting medium, one of (i) a backwards wired device condition at the local end and (ii) a remotely powerable device condition at the local end.
14. (Original) The remotely powerable device of claim 13 wherein the normal operating circuitry is configured to receive, during normal operation, an operating voltage having a first voltage magnitude; and wherein the powerability indicator is configured to provide the response signal in response to receipt of a test voltage, as the test signal, the test voltage having a second voltage magnitude that is substantially less than the first voltage magnitude.

15. (Original) The remotely powerable device of claim 13 wherein the powerability indicator is configured to provide the response signal in response to (i) a first voltage during a first time period, and (ii) a second voltage that is substantially different than the first voltage during a second time period.
16. (Original) The remotely powerable device of claim 15 wherein the powerability indicator is configured to provide the response signal in response to (i) one of a positive and negative test voltage from the connecting medium as the first voltage, and (ii) the other of the positive and negative test voltage from the connecting medium as the second voltage.
17. (Original) The remotely powerable device of claim 13 wherein the normal operating circuitry includes a first transformer and a second transformer; wherein the connecting medium includes (i) a first connecting link having a local end that terminates at the first transformer and a remote end, and (ii) a second connecting link having a local end that terminates at the second transformer and a remote end; wherein each transformer includes a centertap; and wherein the powerability indicator receives the test signal through the centertap of the first transformer and the centertap of the second transformer.

Claims 18-23. (Canceled).

24. (New) A remotely powerable device, comprising:  
normal operating circuitry that couples to a connecting medium of a computer network, the connecting medium including a local end and a remote end; and

a powerability indicator, coupled to the normal operating circuitry, configured to (i) receive a test signal from the connecting medium of the computer network, (ii) provide a response signal to the connecting medium of the computer network to enable discovery of the remotely powerable device based on the response signal, and (iii) selectively indicate, through the local end of the connecting medium, one of (a) a backwards wired device condition at the local end and (b) a remotely powerable device condition at the local end.

25. (New) A remotely powerable device, comprising:

normal operating circuitry that couples to a connecting medium of a computer network, the connecting medium including a local end and a remote end; and

a powerability indicator, coupled to the normal operating circuitry, configured to (i) receive a test signal from the connecting medium of the computer network, and (ii) provide a response signal to the connecting medium of the computer network to enable discovery of the remotely powerable device based on the response signal, the powerability indicator including means for selectively indicating, through the local end of the connecting medium, one of (a) a backwards wired device condition at the local end and (b) a remotely powerable device condition at the local end.